

SEQUENCE LISTING

<110> BEASLEY, Ellen M. et al

<120> ISOLATED HUMAN TRANSPORTER PROTEINS,
 NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
 AND USES THEREOF

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Gln Gly Leu Ser His Thr Thr Asp Met Gln Thr Arg Asp Val Leu Met
180      185      190
Lys Leu Ser Gly Arg Ile Glu Cys Glu Gly Pro Asn Arg His Leu Tyr
195      200      205
Asp Phe Thr Gly Asn Leu His Leu Asp Gly Lys Ser Ser Val Ala Leu
210      215      220
Gly Pro Asp Gln Ile Leu Leu Arg Gly Thr Gln Leu Arg Asn Thr Gln
225      230      235      240
Trp Val Phe Gly Val Val Val Tyr Thr Gly His Asp Ser Lys Leu Met
245      250      255
Gln Asn Ser Thr Lys Ala Pro Leu Lys Arg Ser Asn Val Glu Lys Val
260      265      270
Thr Asn Val Gln Ile Leu Val Leu Phe Gly Ile Leu Leu Val Met Ala
275      280      285
Leu Val Ser Ser Val Gly Ala Leu Phe Trp Asn Gly Ser His Gly Gly
290      295      300
Lys Ser Trp Tyr Ile Lys Lys Met Asp Thr Asn Ser Asp Asn Phe Gly
305      310      315      320
Tyr Asn Leu Leu Thr Phe Ile Ile Leu Tyr Asn Asn Leu Ile Pro Ile
325      330      335
Ser Leu Leu Val Thr Leu Glu Val Val Lys Tyr Thr Gln Ala Leu Phe
340      345      350
Ile Asn Trp Asp Met Asp Met Tyr Tyr Ile Glu Asn Asp Thr Pro Ala
355      360      365
Met Ala Arg Thr Ser Asn Leu Asn Glu Glu Leu Gly Gln Val Lys Tyr
370      375      380
Leu Phe Ser Asp Lys Thr Gly Thr Leu Thr Cys Asn Ile Met Asn Phe
385      390      395      400
Lys Lys Cys Ser Ile Ala Gly Val Thr Tyr Gly His Phe Pro Glu Leu
405      410      415

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Ala Arg Glu Gln Ser Ser Asp Asp Phe Cys Arg Met Thr Ser Cys Thr
 420 425 430
 Asn Asp Ser Cys Asp Phe Asn Asp Pro Arg Leu Leu Lys Asn Ile Glu
 435 440 445
 Asp Gln His Pro Thr Ala Pro Cys Ile Gln Glu Phe Leu Thr Leu Leu
 450 455 460
 Ala Val Cys His Thr Val Val Pro Glu Lys Asp Gly Asp Glu Ile Ile
 465 470 475 480
 Tyr Gln Ala Ser Ser Pro Asp Glu Ala Ala Leu Val Lys Gly Ala Lys
 485 490 495
 Lys Leu Gly Phe Val Phe Thr Gly Arg Thr Pro Tyr Ser Val Ile Ile
 500 505 510
 Glu Ala Met Gly Gln Glu Gln Thr Phe Gly Ile Leu Asn Val Leu Glu
 515 520 525
 Phe Ser Ser Asp Arg Lys Arg Met Ser Val Ile Val Arg Leu Pro Ser
 530 535 540
 Gly Gln Leu Arg Leu Tyr Cys Lys Gly Ala Asp Asn Val Ile Phe Glu
 545 550 555 560
 Arg Leu Ser Lys Asp Ser Lys Tyr Met Glu Glu Thr Leu Cys His Leu
 565 570 575
 Glu Tyr Phe Ala Thr Glu Gly Leu Arg Thr Leu Cys Val Ala Tyr Ala
 580 585 590
 Asp Leu Ser Glu Asn Glu Tyr Glu Glu Trp Leu Lys Val Tyr Gln Glu
 595 600 605
 Ala Ser Ile Ile Leu Lys Asp Arg Ala Gln Arg Leu Glu Glu Cys Tyr
 610 615 620
 Glu Ile Ile Glu Lys Asn Leu Leu Leu Gly Ala Thr Ala Ile Glu
 625 630 635 640
 Asp Arg Leu Gln Ala Gly Val Pro Glu Thr Ile Ala Thr Leu Leu Lys
 645 650 655
 Ala Glu Ile Lys Ile Trp Val Leu Thr Gly Asp Lys Gln Glu Thr Ala
 660 665 670
 Ile Asn Ile Gly Tyr Ser Cys Arg Leu Val Ser Gln Asn Met Ala Leu
 675 680 685
 Ile Leu Leu Lys Glu Asp Ser Leu Asp Ala Thr Arg Ala Ala Ile Thr
 690 695 700
 Gln His Cys Thr Asp Leu Gly Asn Leu Leu Gly Lys Glu Asn Asp Val
 705 710 715 720
 Ala Leu Ile Ile Asp Gly His Thr Leu Lys Tyr Ala Leu Ser Phe Glu
 725 730 735
 Val Arg Arg Ser Phe Leu Asp Leu Ala Leu Ser Cys Lys Ala Val Ile
 740 745 750
 Cys Cys Arg Val Ser Pro Leu Gln Lys Ser Glu Ile Val Asp Val Val
 755 760 765
 Lys Lys Arg Val Lys Ala Ile Thr Leu Ala Ile Gly Asp Gly Ala Asn
 770 775 780
 Asp Val Gly Met Ile Gln Thr Ala His Val Gly Val Gly Ile Ser Gly
 785 790 795 800
 Asn Glu Gly Met Gln Ala Thr Asn Asn Ser Asp Tyr Ala Ile Ala Gln
 805 810 815
 Phe Ser Tyr Leu Glu Lys Leu Leu Leu Val His Gly Ala Trp Ser Tyr
 820 825 830
 Asn Arg Val Thr Lys Cys Ile Leu Tyr Cys Phe Tyr Lys Asn Val Val
 835 840 845
 Leu Tyr Ile Ile Glu Leu Trp Phe Ala Phe Val Asn Gly Phe Ser Gly
 850 855 860
 Gln Ile Leu Phe Glu Arg Trp Cys Ile Gly Leu Tyr Asn Val Ile Phe

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865              870              875              880
Thr Ala Leu Pro Pro Phe Thr Leu Gly Ile Phe Glu Arg Ser Cys Thr
              885              890              895
Gln Glu Ser Met Leu Arg Phe Pro Gln Leu Tyr Arg Ile Thr Gln Asn
              900              905              910
Ala Glu Gly Phe Asn Thr Lys Val Phe Trp Gly His Cys Ile Asn Ala
              915              920              925
Leu Val His Ser Leu Ile Leu Phe Trp Val Pro Met Lys Ala Leu Glu
              930              935              940
His Asp Thr Pro Val Thr Ser Gly His Ala Thr Asp Tyr Leu Phe Val
945              950              955              960
Gly Asn Ile Val Tyr Thr Tyr Val Val Val Thr Val Cys Leu Lys Ala
              965              970              975
Gly Leu Glu Thr Thr Ala Trp Thr Lys Phe Ser His Leu Ala Val Trp
              980              985              990
Gly Ser Met Leu Ile Trp Leu Val Phe Phe Gly Val Tyr Ser Thr Ile
              995              1000              1005
Trp Pro Thr Ile Pro Ile Ala Pro Asp Met Lys Gly Gln Ala Thr Met
              1010              1015              1020
Val Leu Ser Ser Ala Tyr Phe Trp Leu Gly Leu Phe Leu Val Pro Thr
1025              1030              1035              1040
Ala Cys Leu Ile Glu Asp Val Ala Trp Arg Ala Ala Lys His Thr Cys
              1045              1050              1055
Lys Lys Thr Leu Leu Glu Glu Val Gln Glu Leu Glu Thr Lys Ser Arg
              1060              1065              1070
Val Met Gly Lys Ala Met Leu Arg Asp Ser Asn Gly Lys Arg Met Asn
              1075              1080              1085
Glu Arg Asp Arg Leu Ile Lys Arg Leu Ser Arg Lys Thr Pro Pro Thr
              1090              1095              1100
Leu Phe Arg Thr Gly Ser Ile Gln Gln Cys Val Ser His Gly Tyr Ala
1105              1110              1115              1120
Phe Ser Gln Glu Glu His Gly Ala Val Thr Gln Glu Glu Ile Val Arg
              1125              1130              1135
Ala Tyr Asp Thr Thr Lys Glu Asn Ser Arg Lys Lys
              1140              1145

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